ernational Application No CT/GB2004/003016

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L21/20 H01L51/40 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (dassification system followed by classification symbols) HOIL B41M HO5K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ US 2002/008464 A1 (CHRISTENSEN ALTON O) 1,25 24 January 2002 (2002-01-24) paragraph '0034!; figure 1 Υ US 2002/172887 A1 (WOLK MARTIN B ET AL) 1-12,25, 21 November 2002 (2002-11-21) 26 paragraph '0087! - paragraph '0096!; Α 13 figures 5A-5D.6A-6D Υ WO 01/95384 A1 (THE UNIVERSITY OF 1-12,25,LIVERPOOL; ECCLESTON, WILLIAM) 13 December 2001 (2001-12-13) page 6, line 15 - page 8, line 25; figure Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention \*E\* earlier document but published on or after the international \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority dalm(s) or which is cited to establish the publication date of another diation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or \*P\* document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 2 February 2005 10/02/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Pusch, C

Form PCT 1SA 210 (continuation of second sheet) (January 2004)

ernational Application No
. CT/GB2004/003016

| 0/0-04     |   | . CT/GB2004/003016       |  |  |
|------------|---|--------------------------|--|--|
| Category ° | ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages                                  | Relevant to claim No.    |  |  |
|            |   | VIOLOTALIA TO BELLIA TAC |  |  |
| Y          | US 2002/093017 A1 (ANDRY PAUL S ET AL) 18 July 2002 (2002-07-18) paragraph '0058! - paragraph '0067!; figure 1e   | 1-12,25,<br>26           |  |  |
| Y          | US 6 555 411 B1 (BAO ZHENAN ET AL)<br>29 April 2003 (2003-04-29)<br>abstract  | 2,25,26                  |  |  |
| Y          | WO 02/065557 A1 (SIEMENS AKTIENGESELLSCHAFT; BERNDS, ADOLF; FIX, WALTER; ROST, HENNING) 22 August 2002 (2002-08-22) abstract                                    | 10                       |  |  |
| Α          | PATENT ABSTRACTS OF JAPAN vol. 013, no. 132 (E-736), 31 March 1989 (1989-03-31) & JP 63 299297 A (MEIKO DENSHI KOGYO KK), 6 December 1988 (1988-12-06) abstract | 13                       |  |  |
| Α          | US 2002/146893 A1 (SHIMODA TATSUYA ET AL) 10 October 2002 (2002-10-10) paragraph '0360! - paragraph '0364!; figures 31-34                                       | 13                       |  |  |
| Υ          | paragraphs '0165!, '0224!   | 4                        |  |  |
| P,A        | US 2003/211665 A1 (BAO ZHENAN ET AL) 13 November 2003 (2003-11-13) abstract   | 1,13,25                  |  |  |
|            |   |                          |  |  |
|            |   |                          |  |  |
|            |   |                          |  |  |
|            |   |                          |  |  |
|            |   |                          |  |  |

Information on patent family members

arnational Application No

CT/GB2004/003016

|    |                                    |    |                     |   |  | 101/6BZ   | 004/003016   |
|----|------------------------------------|----|---------------------|---|--|---|--|
|    | itent document<br>In search report |    | Publication<br>date |   | Patent family member(s)  |   | Publication<br>date  |
| US | 2002008464                         | A1 | 24-01-2002          | US<br>US<br>EP<br>WO  | 2001045798<br>6229259<br>1380054<br>02080278   | B1<br>A1  | 29-11-2001<br>08-05-2001<br>14-01-2004<br>10-10-2002   |
| US | 2002172887                         | A1 | 21-11-2002          | US<br>US<br>AU<br>CN<br>DE<br>DE<br>EP<br>EP<br>HKP<br>WO<br>US<br>US<br>US<br>US<br>US<br>US | 2001036561<br>6221553<br>6114088<br>2723700<br>4199799<br>1337905<br>60003281<br>60903978<br>69903978<br>1144197<br>1342585<br>1144198<br>1042675<br>2002534782<br>0041893<br>0041892<br>2002197554<br>6194119<br>6140009<br>6270944<br>6214520<br>6291116<br>2001000744<br>2002015907 | B1<br>A<br>A<br>T<br>D1<br>T2<br>D1<br>T2<br>A1<br>A1<br>A1<br>A1<br>A1<br>B1<br>B1<br>B1<br>B1 | 01-11-2001<br>24-04-2001<br>05-09-2000<br>01-08-2000<br>27-02-2002<br>17-07-2003<br>06-05-2004<br>19-12-2002<br>17-07-2003<br>17-10-2001<br>10-09-2003<br>17-10-2001<br>25-06-2004<br>15-10-2002<br>20-07-2000<br>20-07-2000<br>26-12-2002<br>27-02-2001<br>31-10-2000<br>07-08-2001<br>10-04-2001<br>18-09-2001<br>07-02-2002 |
| WO | 0195384                            | A1 | 13-12-2001          | AU<br>EP<br>JP<br>US  | 6050001<br>1287551<br>2003536260<br>2003170937   | A1  | 17-12-2001<br>05-03-2003<br>02-12-2003<br>11-09-2003   |
| US | 2002093017                         | A1 | 18-07-2002          | CN<br>JP<br>TW  | 1366351<br>2002280391<br>522572  | . A '   | 28-08-2002<br>27-09-2002<br>01-03-2003   |
| US | 6555411                            | B1 | 29-04-2003          | NONE  |  |   |  |
| WO | 02065557                           | A1 | 22-08-2002          | ·· DE<br>EP<br>JP<br>US   | 10105914<br>1358684<br>2004518305<br>2004219460  | A1<br>5 T   | 10-10-2002<br>05-11-2003<br>17-06-2004<br>04-11-2004   |
| JP | 63299297                           | A  | 06-12-1988          | NONE  |  | <del></del>   |  |
| US | 2002146893                         | A1 | 10-10-2002          | JP<br>JP<br>JP<br>US<br>US<br>CN<br>EP  | 10125931<br>10125930<br>10125929<br>11026734<br>2003224582<br>2004219762<br>1199507<br>1351308<br>0858110  | ) A<br>) A<br>! A<br>! A1<br>! A1<br>! A ,C   | 15-05-1998<br>15-05-1998<br>15-05-1998<br>29-01-1999<br>04-12-2003<br>04-11-2004<br>18-11-1998<br>08-10-2003<br>12-08-1998   |

Information on patent family members

mational Application No rCT/GB2004/003016

| Patent document<br>clted in search report |    | Publication date |      | Patent family<br>member(s) | ,  | Publication<br>date |
|---|----|------------------|------|----------------------------|----|---------------------|
| US 2002146893                             | A1 | <b></b>          | WO   | 9809333                    | A1 | 05-03-1998          |
|   |    |                  | JP   | 11074533                   | Α  | 16-03-1999          |
|   |    |                  | JP   | 2004140380                 | Α  | 13-05-2004          |
|   |    |                  | JΡ   | 2004140381                 | Α  | 13-05-2004          |
|   |    |                  | JP   | 2004140382                 | Α  | 13-05-2004          |
|   |    |                  | JP   | 2004140383                 | Α  | 13-05-2004          |
|   |    |                  | US   | 6372608                    | B1 | 16-04-2002          |
|   |    |                  | US   | 6127199                    | Α  | 03-10-2000          |
|   |    |                  | บร   | RE38466                    | E1 | 16-03-2004          |
| US 2003211665                             | A1 | 13-11-2003       | NONE | <del></del>                |    |                     |